## **Beam Power Tube**

## 9-PIN MINIATURE TYPE

## GENERAL DATA

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	Electrical:	
_	Heater, for Unipotential Cathode:  Voltage (AC or DC)	volts amp
	Grid No.1 to plate 0.2 Grid No.1 to cathode & grid No.3,	μμf
	grid No.2, and heater	μμ
~.	grid No.2, and heater 8	$\mu\mu$ f
	Mechanical:	
	Maximum Överall Length	0.875" [6-1/2 [E9-1]
	Pin 1-Grid No.2 Pin 2-Cathode, Grid No.3 Pin 3-Grid No.1 Pin 4-Heater Pin 5-Heater Pin 6-Grid No.1	Con-
	AMPLIFIER Class A	
	Maximum Ratings, Design-Center Values:	
_	PLATE VOLTAGE	volts volts watts watts volts volts
	Typical Operation and Characteristics:	
	Plate Supply Voltage	volts volts volts ohms

Peak AF Grid-No.1 Voltage.       7.5       8.5         Zero-Signal Plate Current.       49       46         MaxSignal Plate Current.       50       47         Zero-Signal Grid-No.2 Current.       4       2.2         MaxSignal Grid-No.2 Current.       10       8.5         Plate Resistance (Approx.)       13000       28000         Transconductance       8000       8000         Load Resistance.       2000       4000         Total Harmonic Distortion.       10       10         MaxSignal Power Output       2.1       3.8	volts ma ma ma ohms µmhos ohms % watts		
Maximum Circuit Values:			
Grid-No.1-Circuit Resistance: For fixed-bias operation 0.1 max. For cathode-bias operation 2.2 max.	megohm megohms		
VERTICAL-DEFLECTION AMPLIFIER		$\overline{}$	
Maximum Ratings, Design-Center Values Except as Noted.	<i>:</i>	•	
For operation in a 525-line, 30-frame system <sup>c</sup>			
DC PLATE VOLTAGE 300 max. PEAK POSITIVE-PULSE PLATE VOLTAGE	volts		
(Absolute maximum) d 2000 max.	volts		
DC GRID-No.2 (SCREEN-GRID) VOLTAGE 150 max.	volts		
PEAK NEGATIVE—PULSE GRID—No.1 (CONTROL—GRID) VOLTAGE 250 max. CATHODE CURRENT:	volts		
Peak 200 max.	ma		
Average	ma		
GRID-No.2 INPUT	watts		
PLATE DISSIPATION 10 max. PEAK HEATER-CATHODE VOLTAGE: Heater negative with	watts		
respect to cathode 200 max. Heater positive with	volts		
respect to cathode 200 <sup>b</sup> max.	volts		
Maximum Circuit Values:			
Grid-No.1-Circuit Resistance:			
For fixed-bias operation 0.1 max. For cathode-bias operation 2.2 max.	megohm megohms		
<ul> <li>a without external shield.</li> <li>b The dc component must not exceed 100 volts.</li> <li>c As described in "Standards of Good Engineering Practice Control Television Broadcast Stations," Federal Communications Cond This rating is applicable where the duration of the voltage proof to exceed 15 per cent of one vertical scanning cycle. In a 30-frame system, 15 per cent of one vertical scanning cycle.</li> </ul>		Ó	
milliseconds.  e. Under no circumstances should this absolute value be exceeded			